

creative computing

# CATALOG

## BOOKS

# MAGAZINES

Computers & Electronics • Creative Computing • Microsystems • Small Business Computers • Sync





# Good reasons why you should subscribe to *Creative Computing*.



## It's the Number One magazine of computer applications and software!

There's one place you can always be sure of learning more about microcomputer software and applications: *Creative Computing*.

Every month *Creative Computing* provides you with a continuing education on everything related to microcomputers and computer equipment. Useful articles, "how to" tutorials, exciting new applications, games and "no holds barred" reviews of the latest software and equipment make up a major part of *Creative Computing's* editorial content.

We give you probing features on programming breakthroughs and important news. Plus in-depth articles on elementary, intermediate and advanced software and applications topics—to help you develop your knowledge and skills, save hundreds (perhaps thousands) of dollars in unneeded software, discover uses for your personal computer that you might never have considered. Articles that increase your overall "computer consciousness." Here's how:

### 1

#### ***Creative Computing* gives you things to actually do with a computer.**

Just owning a computer isn't enough. You've got to know what to do with it. That's why applications are our primary focus. Text editing, animation, graphics, business simulations, data base and file systems, music synthesis, control of household devices, communications, games—some of the applications and software you'll learn about in *Creative Computing*.

### 2

#### ***Creative Computing* discusses business applications in simple, nontechnical language.**

If you're a business person who needs to know about the latest developments in word processing and office applications, turn to *Creative Computing*. We clarify such business applications as investment analysis, futures evaluations, data base management, mailing list programs, text editing, word processing and simulations. And all the software available for business people.

### 3

#### ***Creative Computing* helps you decide which computer equipment is best for you.**

Our tough, no-nonsense equipment profiles arm you with the facts before you walk into a computer store. You'll know the right questions to ask and how to cut through the jargon and sales hype. We give you authoritative guidance in deciding what you need, what you don't need—and what's right for you and your pocketbook.

### 4

#### ***Creative Computing* covers computer education in depth.**

We started out as a computer education publication, and we're still committed to the educational community. We regularly carry articles on designing educational software, evaluating educational software, teaching concepts and terminology in computer education, text editing applications for literature and computer simulations in the classroom—plus a great deal more.

### 5

#### ***Creative Computing* brings you hours of mind-expanding game entertainment.**

We've got a soft spot for the computer game addict—and computer game software. We know you want to understand more about the new computer games flooding the market: which ones are easiest to learn? Require the most skill? Offer the most surprises? Give you the best graphics? Provide the most challenge? Contain a new twist? *Creative Computing* brings you the answers.

### 6

#### ***Creative Computing* features the state of the art.**

Columns on the most popular personal computers, a "software legal forum," letters to the editor. Reviews of books, games, organizations, dealers and events. Fascinating interviews with leading innovators, equipment designers, program developers and game inventors—men and women who'll give you a real glimpse of the future!

### 7

#### **Our price is right.**

By subscribing to *Creative Computing* now, you can save as much as 33% off the full subscription price. To learn elsewhere what you'll learn from *Creative Computing*, you might spend hundreds of dollars in course fees and books. Then you'd have to winnow out what you could use from all that you'd learned. But *Creative Computing* does that for you, so you'll have time to enjoy your own computing interests. And that saving of time makes this offer very inexpensive indeed.

**Join over 150,000  
*Creative Computing* readers  
by subscribing today!  
Just use the coupon  
at right.**

**SAVE UP TO 33%!**

**Creative Computing** • P.O. Box 5214 • Boulder, Colorado 80322

**YES!** Send me *Creative Computing* for:

- ☐ One year (12 issues) for \$19.97—I save 20%!
- ☐ Two years (24 issues) for \$36.97—I save 26%!
- ☐ Three years (36 issues) for \$49.97—I save 33%!

Savings based on full one-year subscription price of \$24.97.

Check one: ☐ Payment enclosed. ☐ Bill me later.

Mr. / Mrs. / Ms. \_\_\_\_\_ (please print full name) 8H195

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Offer valid in U.S. and possessions only. Please allow 30 to 60 days for delivery of first issue.



# creative computing CATALOG

39 East Hanover Avenue  
Morris Plains, NJ 07950

Dear Computer Enthusiast:

Welcome to the *Creative Computing* Catalog of computing books, magazines and related products. Whether you're a regular customer or new to us, we think you'll find plenty here to interest you. In particular, don't miss:

- Our *NEW BOOKS* on pages six and seven—five great new titles ranging from high-level CP/M® information to hot tips on beating video arcade games!
- The *BUYER'S GUIDES* on page 11—solid information in two convenient reference sources for your hardware, software and peripheral shopping needs.
- Our sturdy *MAGAZINE BINDERS* and *CASES* on page 13, perfect for organizing and protecting those valuable back issues.

See the table of contents below for a com-

# FREE!

Get this fascinating  
computer board  
game with  
book orders of  
\$20 or more!



## COMPUTER RAGE

is an intriguing board game that's fun to play—and educational—for computer buffs of all ages! In *COMPUTERRAGE*, the object is to move your programs from "Input" to "Output" before the other players. Your moves are

creases—and so does your understanding of how a large-scale, multi-processing computer system works.

**SAVE  
UP TO  
33%!**

**YES! Send me  
*Creative Computing* for:**

- ☐ One year (12 issues)  
for \$19.97—I save 20%!
- ☐ Two years (24 issues)  
for \$36.97—I save 26%!
- ☐ Three years (36 issues)  
for \$49.97—I save 33%!

Savings based on full one-year  
subscription price of \$24.97.

Check one:

- ☐ Payment enclosed.
- ☐ Bill me later.

49027 ☐ Send me one year of *Computers  
& Electronics* for \$12.97. (Full  
subscription price \$15.97.)

Mr. \_\_\_\_\_  
Mrs. \_\_\_\_\_  
Ms. \_\_\_\_\_  
(please print full name) 8H195

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Offer valid in U.S. and possessions only. Please allow 30 to 60 days for  
delivery of first issue.

CC-C4-1008





# Good reasons why you should subscribe to *Creative Computing*.



## It's the Number One magazine of computer applications and software!

There's one place you can always be sure of learning more about microcomputer software and applications: *Creative Computing*.

Every month *Creative Computing* provides you with a continuing education on everything related to microcomputers and computer equipment. Useful articles, "how to" tutorials, exciting new applications, games and "no holds barred" reviews of the latest software and equipment make up a major part of *Creative Computing*'s editorial content.

We give you probing features on programming breakthroughs and important news. Plus in-depth articles on elementary, intermediate and advanced software and applications topics—to help you develop your knowledge and skills, save hundreds (perhaps thousands) of dollars in unneeded software, discover uses for your personal computer that you might never have considered. Articles that increase your overall "computer consciousness." Here's how:

### 1

***Creative Computing* gives you things to actually do with a computer.**

Just owning a computer isn't enough. You've got to know what to do with it. That's why applications are our primary focus. Text editing, animation, graphics, business simulations, data base and file systems, music synthesis, control of household devices, communications, games—some of the applications and software you'll learn about in *Creative Computing*.

### 2

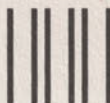
***Creative Computing* discusses business applications in simple, nontechnical language.**

If you're a business person who needs to know about the latest developments in word processing and office applications, turn to *Creative Computing*. We clarify such business applications as investment analysis, futures evaluations, data base management, mailing list programs, text editing, word processing and simulations. And all the software available for business people.

### 3

***Creative Computing* helps you decide which computer equipment is best for you.**

Our tough, no-nonsense equipment profiles arm you with the facts before you walk into a computer store. You'll know the right questions to ask and how to cut through the jargon and sales hype. We give you authoritative guidance in deciding what you need, what you don't need—and what's right for you and your pocketbook.



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

## BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 66 BOULDER, COLORADO

POSTAGE WILL BE PAID BY ADDRESSEE

**creative  
computing**

P.O. Box 5214  
Boulder, Colorado 80321





# creative computing CATALOG

39 East Hanover Avenue  
Morris Plains, NJ 07950

Dear Computer Enthusiast:

Welcome to the *Creative Computing* Catalog of computing books, magazines and related products. Whether you're a regular customer or new to us, we think you'll find plenty here to interest you. In particular, don't miss:

- Our **NEW BOOKS** on pages six and seven—five great new titles ranging from high-level CP/M® information to hot tips on beating video arcade games!
- The **BUYER'S GUIDES** on page 11—solid information in two convenient reference sources for your hardware, software and peripheral shopping needs.
- Our sturdy **MAGAZINE BINDERS** and **CASES** on page 13, perfect for organizing and protecting those valuable back issues.

See the table of contents below for a complete listing. And remember: credit card customers can save time by using our TOLL FREE number. Just call 800-631-8112. (In NJ, 201-540-0445). Please have catalog handy when you call. Happy shopping!



## TABLE OF CONTENTS

### MAGAZINES

*Creative Computing* . . . . . Front Cover  
*Computers & Electronics* . . . . . Back Cover  
*Microsystems* . . . . . p. 5  
*Small Business Computers* . . . . . 12  
*Sync* . . . See order card by *Microsystems* ad

### BOOKS

Children's Books . . . . . 3  
Programming and Technical . . . . . 4  
New Releases . . . . . 6  
Education and Learning . . . . . 8  
Game Books . . . . . 8  
General Interest . . . . . 10

### BUYER'S GUIDES

Software Buyer's Guide . . . . . 11  
Buyer's Guide to Personal Computers . . . 11

### MAGAZINE BINDERS and SLIPCASES . 13

### BACK ISSUES

*Creative Computing* . . . . . 13  
*Microsystems* . . . . . 13  
*Small Business Computers* . . . . . 13  
*Sync* . . . . . 13

### CASSETTE and FILE CASES . 15

# FREE!

Get this fascinating  
computer board  
game with  
book orders of  
**\$20 or more!**



## COMPUTER RAGE

is an intriguing board game that's fun to play—and educational—for computer buffs of all ages! In **COMPUTER RAGE**, the object is to move your programs from "Input" to "Output" before the other players. Your moves are determined by the roll of dice, giving you a three-bit binary number. It sounds easy—until you encounter program bugs, scheduling changes, power and program failures, priority interrupts and more!

The outcome of **COMPUTER RAGE** is a matter of probability, luck and skill. As you play more often, your ability in-

creases—and so does your understanding of how a large-scale, multi-processing computer system works.

**COMPUTER RAGE** can be played by two to four players, ages ten to adult. Notes for using the game in school are included. **COMPUTER RAGE** comes complete with a colorful playing board, 12 program playing pieces, three binary dice, and 38 interrupt cards. And don't forget—**COMPUTER RAGE** is yours **FREE** with your \$20 book order!

## SPECIAL NOTES

**IF ORDER FORMS ARE MISSING**, send your order with your payment or complete credit card information and signature to: *Creative Computing Catalog*, Dept. CA6X, 39 East Hanover Avenue, Morris Plains, NJ 07950. When enclosing payment, be sure to add postage and handling as follows:

### Orders to U.S.A., Canada and Mexico

If order is under \$5—add \$1.00.  
\$ 5.01 to \$10.00—add \$1.50.  
\$10.01 to \$30.00—add \$2.50.  
\$30.01 to \$40.00—add \$4.50.  
\$40.01 to \$60.00—add \$6.00.

Postage is free for orders over \$60.00.

### All foreign orders (shipped air mail only)

If order is under \$30.00—add \$5.00.  
over \$30.00—add \$10.00.

Specify item number of each product.

**PLEASE NOTE:** To order magazine subscriptions, use the bound-in cards or coupons accompanying the appropriate advertisement.

## CALL TOLL FREE

to place your credit card order!

# 800-631-8112

(In NJ, 201-540-0445)



(Charge and phone orders  
\$10 minimum)

**For fastest service, call today!**

Please have catalog at hand  
when ordering.

TRADEMARKS: Microsoft: *Microsoft Consumer Products, Inc.* tiny c TWO: *tiny c associates.*

REGISTERED TRADEMARKS: Apple, *Apple Computers, Inc.* Atari: *Atari, Inc.* TRS-80: *Radio Shack Division of Tandy Corp.* VIC: *Commodore Business Machines.*



# ONE MAGAZINE CAN'T COVER IT ALL

## THE SOFTWARE HARDWARE BUSINESS ADVANCED SYSTEMS COMPUTER MAGAZINE

## THESE FIVE MAGAZINES DO!

Ziff-Davis Publishing Company is proud to introduce the ZD Computer Magazine Group.

Here are the leading magazines in five widely separate areas of computing—pick the one that meets your needs and subscribe today at savings up to 35%!

### ■ Creative Computing

*Creative Computing* is number one for software and applications information. You'll find reviews of software for all microcomputer systems, evaluations of personal computers and peripherals, book reviews and games to play. Plus helpful shortcuts, new products, and plenty of ways to have fun with your microcomputer! **SAVE UP TO 33%!**

### ■ Computers & Electronics

More people depend upon *Computers & Electronics* (formerly *Popular Electronics*) for microcomputer hardware information than any other magazine. You get the latest news on computing, plus advice on choosing microcomputers, peripherals and accessories. Also features on home electronics, communications, etc. **SAVE UP TO 33%!**

### ■ Small Business Computers

If you're in business, sooner or later you'll need a microcomputer. *Small Business Computers* reports on (and evaluates) all the new microcomputers and operating systems for business use. You get detailed information on applications and software for finance, marketing, sales, distribution, purchasing and word processing. **SAVE UP TO 35%!**

### ■ Microsystems

If you're already an expert with microcomputers, you need *Microsystems*, the journal for advanced users. *Microsystems* covers new languages. Advanced hardware and software products. Tutorials on modifications and special uses of systems. Techniques for interfacing. Plus other current information on DOS development. **SAVE UP TO 33%!**

### ■ Sync

If you own a Sinclair or Timex/Sinclair ZX81, *Sync* is the magazine for you. Written exclusively for ZX80 and ZX81 users, *Sync* covers new peripherals, business and game software, hardware modifications and more! You'll also get listings of second source vendors, user groups, book reviews, debugging procedures—everything the Sinclair owner needs to know! **SAVE UP TO 33%!**

**SEE INDIVIDUAL  
ADVERTISEMENTS  
IN THIS CATALOG  
FOR MORE  
INFORMATION.  
USE BOUND-IN  
CARDS TO ORDER  
MAGAZINES.**





# BOOKS

## CHILDREN'S BOOKS

### Computers for Kids

by Sally Greenwood Larsen

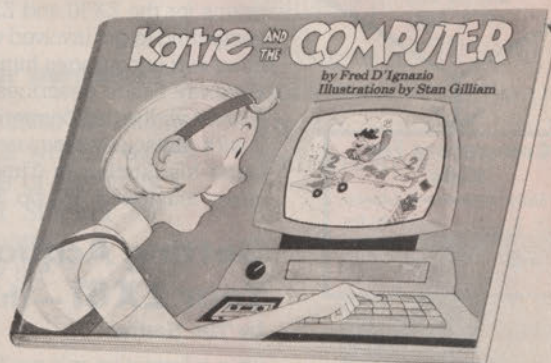
*Computers for Kids* is written for the elementary-age child who is fascinated by computers, but is put off by the reading level of most programming books. Published in four editions (TRS-80, Apple, Atari and Sinclair ZX81), this delightful book features large, easy-to-read text, loads of illustrations and complete instructions. *Computers for Kids* tells how to write programs that print, do calculations and draw pictures. It explains how to save and load programs, write flow charts and use BASIC language. A special section offers guidance and tips for adults who are learning about computers with their children. Each volume is 11" x 8½", softcover, illustrated, 86 pp. \$4.95 each. *Specify edition and item number:* Apple: #12G; Atari: #12J; Sinclair ZX81: #12S; TRS-80: #12H.



### Katie and the Computer

by Fred D'Ignazio and Stan Gilliam

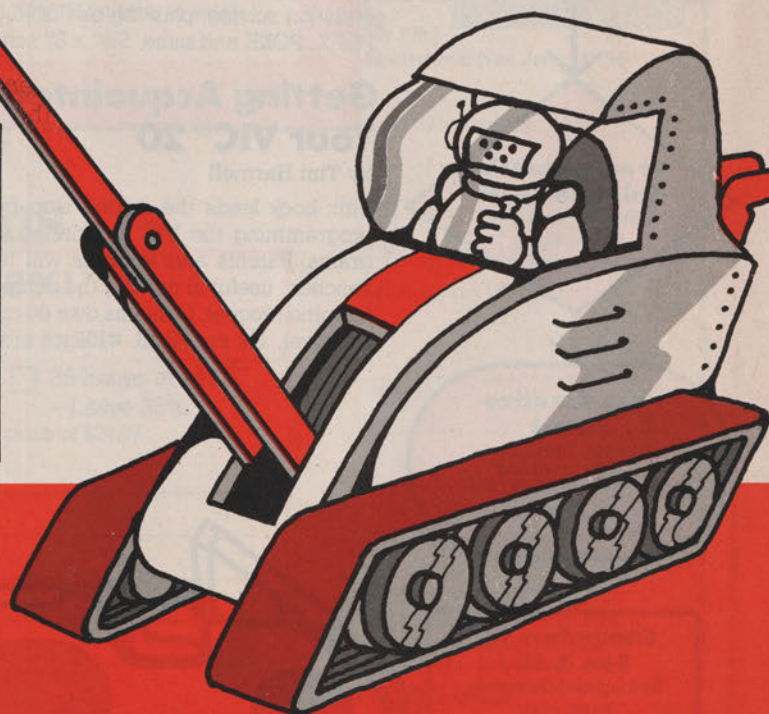
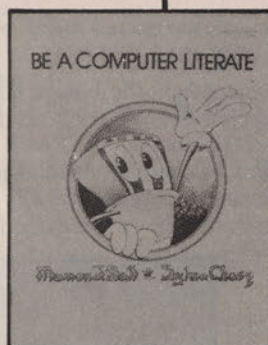
In this delightful, full-color fantasy for younger children, Katie "falls" into her home's new computer and enters the imaginary world of Cybernia. Her marvelous journey, with Colonel Byte as her guide, parallels the path of a programming command through a computer, complete with visits to the CPU and an encounter with a "programming bug." Aimed at children four to ten, but parents can use the supplemental information provided to relate the story to actual computer operation. *Infosystems* calls this book "entertaining and educational." 8½" x 11", hardcover, full-color illustrations, 36 pp. \$8.95. #12A.



### Be a Computer Literate

by Marion J. Ball and Sylvia Charp,  
illustrated by Jonathan Byrd

This book explains in simple, easy-to-understand terms how and why a computer functions. The illustrations, diagrams and photos make each concept clear and easy to grasp without oversimplifying. This book is a perfect introduction to computers for children aged 10 to 16. 8½" x 11", softcover, illustrated, 66 pp. with glossary. \$4.95. #6H.



Charge your order—  
**CALL TOLL FREE**  
**800-631-8112**

(In NJ 201-540-0445)!

(Charge and phone orders \$10 minimum)  
Please have catalog at hand when ordering.





# BOOKS

## PROGRAMMING and TECHNICAL

### START

SEE BELOW  
FOR  
ADDITIONAL  
SELECTIONS

### The Creative Apple

Edited by Mark Pelczarski  
and Joe Tate  
\$15.95 #18R.  
See page 7

### Computers for Kids

By Sally Greenwood Larsen  
\$4.95. Editions: Apple: #12G;  
Atari: #12J; Sinclair ZX81:  
#12S; TRS-80: #12H.  
See page 3.

### The Creative TRS-80

Edited by Ken Mazur  
\$15.95 #18Y.  
See page 7

### Programmer's Guide to CP/M

Edited by Sol Libes  
\$10.95. #14C.  
See page 6

### The Creative Atari

Edited by David Small,  
Sandy Small and  
George Blank  
\$15.95 #18B.  
See page 7

### Computers for Sea & Sky

By Stephen J. Rogowski  
\$9.95 #14F.  
See page 7

### The ZX81 Companion

by Bob Maunder

This book assists ZX81 users in four applications areas: graphics, information retrieval, education and games. The book includes scores of fully documented listings of short routines as well as complete programs. For the serious user, *The ZX81 Companion* also includes a disassembled listing of the ZX81 ROM Monitor. 5½" x 8" softcover, 132 pp. \$8.95. #17P.

### The Gateway Guide to the ZX81 and ZX80

by Mark Charlton

This educational book has more than 70 fully documented programs for the ZX80 and ZX81. The book enables a beginner at computing to get involved with the learning process of programming and encourages him to experiment as he progresses. *The Gateway Guide* describes each statement and function, illustrates it with a demonstration routine or program, and combines it with previously discussed material to help the reader understand his Sinclair or Timex/Sinclair computer. 5½" x 8" softcover, illustrated, 172 pp. \$8.95. #160.

### Getting Acquainted with Your ZX81 — Third Edition

by Tim Hartnell

This informative volume for the new ZX81 user contains more than 70 programs to help the reader get the most from his Sinclair or Timex/Sinclair computer. Game programs include Checkers, Alien Imploders, Blastermind, Moon Lander, Breakout, Star Burst and Derby Day. The book also shows programs for cascading sine waves, plotting graphs and tables, data sorting, equation solving, plus the use of PLOT, SCROLL, PRINT, TAB, PEEK, POKE and more. 5½" x 8" softcover, 120 pp. \$8.95. #15Y.

### Getting Acquainted with Your VIC® 20

by Tim Hartnell

This book leads the reader, step by step, from the basics of programming the VIC to writing complex, sophisticated programs. Parents and teachers will find the section "VIC as a Teacher" useful in making the computer an effective aid in the learning process. Contains over 60 complete programs. 5½" x 8" softcover, 132 pp. \$8.95. #15R.

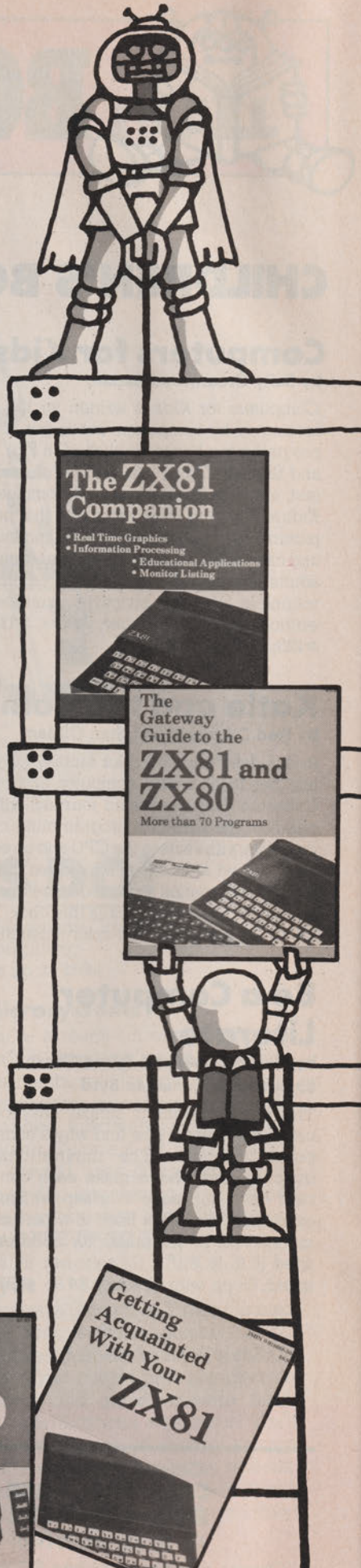
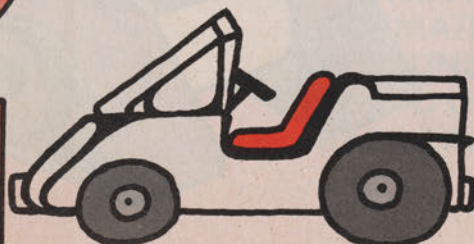
Getting Acquainted With Your VIC 20  
More than 50 Programs

Getting Acquainted With Your ZX81

The ZX81 Companion

- Real Time Graphics
- Information Processing
- Educational Applications
- Monitor Listing

The Gateway Guide to the ZX81 and ZX80  
More than 70 Programs





# YES,

send SYNC at up to 33% off!

Enter my subscription for:

- ☐ One year (6 issues) at \$12.97—I save 19%!  
☐ Two years (12 issues) at \$22.97—I save 28%!  
☐ Three years (18 issues) at \$31.97—I save 33%!  
 Savings based on full one-year subscription price of \$16.

MR. \_\_\_\_\_  
 MRS. \_\_\_\_\_  
 MS. \_\_\_\_\_  
 (please print full name) 8H02

ADDRESS \_\_\_\_\_ APT. \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**CHECK ONE:** ☐ Payment enclosed. ☐ Bill me later.  
 Offer valid in U.S. and possessions only. Please allow 60 to 90 days for delivery of first issue.

◆ Detach here and mail today. ◆



**NEW SUBSCRIBERS ONLY**

## SYNC

### The magazine for—and only for—Sinclair owners!

Now you can get the most out of Sinclair and Timex/Sinclair computers by subscribing to SYNC, the magazine written exclusively for Sinclair owners like you! Each issue of SYNC is packed with informative features on using your Sinclair for games, business, math, home uses—and much more!

In SYNC, you'll find programs that tell you how to:

- Put a reverse character in a string.
- Store three-letter words in an array.
- Improve the video display for games like Tank Battle.
- Do Least Squares Data Analysis.
- Play Space Warp, a graphics space game.

(cont'd on reverse side)

◆ Detach here and mail today. ◆

## MOVE UP TO Microsystems

**AND SAVE UP TO 33%!**

**YES,** enter my subscription to *Microsystems* for:

- ☐ 12 issues at \$19.97 ☐ 24 issues at \$36.97 ☐ 36 issues at \$49.97  
 —I save 20% —I save 26% —I save 33%.  
 Savings based on full 12-issue subscription price of \$24.97.

Mr. \_\_\_\_\_  
 Ms. \_\_\_\_\_  
 (please print full name) 8H11

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

**CHECK ONE:** ☐ Payment enclosed. ☐ Bill me later.  
 Offer valid in U.S. and possessions only. Please allow 30 to 60 days for delivery of first issue.

4901 ☐ Send me 12 issues of *Small Business Computers* for \$14.97. (Full subscription price \$19.97)

# S

popular S-100 disk

DOS with a CP/M adapter.

Microsystems keeps you at the forefront in customizing software to meet new requirements. You also find industry news, book reviews, plus our regular *Software* available programs.

Microsystems information you need for serious microcomputer projects. Use the *Microsystems* and save up to 33%!



SOC.;  
Research.  
Bell

CN 1987  
 Morristown, New Jersey 07960

on to *Microsystems* for:

9.97—I save 20%.

6.97—I save 26%.

9.97—I save 33%.

scription price of \$24.97.

(full name) 8H11

Zip \_\_\_\_\_

enclosed. ☐ Bill me later.  
 Please allow 30 to 60 days for delivery of first prompt refund for unmailed issues.

**RIBERS ONLY**





# BOOK

## PROGRAMM

### START

SEE BELOW  
FOR  
ADDITIONAL  
SELECTIONS

### The Creative Apple

Edited by Mark Pelczarski  
and Joe Tate  
\$15.95 #18R.  
See page 7

### Computers for Kids

By Sally Greenwood Larsen  
\$4.95. Editions: Apple: #12G;  
Atari: #12J; Sinclair ZX81:  
#12S; TRS-80: #12H.  
See page 3.

### The Creative TRS-80

Edited by Ken Mazur  
\$15.95 #18Y.  
See page 7

### Programmer's Guide to CP/M

Edited by Sol Libes  
\$10.95. #14C.  
See page 6

### The Creative Atari

Edited by David Small,  
Sandy Small and  
George Blank  
\$15.95 #18B.  
See page 7

### Computers for Sea & Sky

By Stephen J. Rogowski  
\$9.95. #14F.  
See page 7

T  
b  
T  
ic  
cl  
w  
C  
R  
  
T  
to  
b  
T  
g  
c  
m  
G  
tr  
it  
st  
c  
  
C  
Y  
b  
T  
th  
S  
C  
S  
c  
e  
P  
  
G  
Y  
b  
T  
p  
g  
T  
le  
s

## BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 738 MORRISTOWN, NJ

POSTAGE WILL BE PAID BY ADDRESSEE

# SYNC

CN 1986  
Morristown, NJ 07960

NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

◆ Detach here and mail today. ◆

(con't from reverse side)

And those are only some of the features you would have found in a single recent issue! You'll also find articles on hardware such as *How to make a keyboard conversion*, and *Constructing a two switch human interface for the communicative impaired*. Our "Glitchoidz Report" keeps you up to date on software revisions and debugging procedures, and our practical "Resources" section has listed over 100 second source vendors of software, peripherals and books, plus user groups.

Get the magazine that helps you have fun with—and get the most from—your Sinclair and Timex/Sinclair computers. Subscribe to SYNC today!



**SEE OTHER SIDE OF CARD TO ORDER AT SAVINGS UP TO 33%**

◆ Detach here and mail today. ◆

## BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 738 MORRISTOWN, NJ

POSTAGE WILL BE PAID BY ADDRESSEE

# Microsystems

CN 1987  
Morristown, NJ 07960

NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES



# Move up to Microsystems

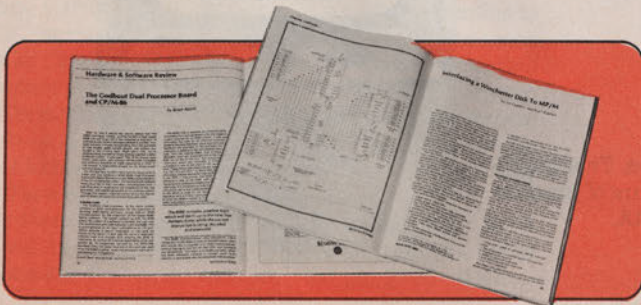
**THE JOURNAL FOR SOPHISTICATED  
MICROCOMPUTER USERS.**

*Microsystems* is not, in any sense, for beginners. Unlike "personal computer" magazines, *Microsystems* is written *exclusively* for expert users and designers in the software and support hardware field.

If you need a reliable, high-level, up-to-date journal devoted to CP/M®, MP/M®, MS-DOS™, UNIX®, XENIX™, OASIS and other operating systems, then *Microsystems* is for you. We feature tutorials on the modification and special use of systems, offer short-cut routines, show you debugging procedures, techniques for interfacing, and much more. Our one purpose is to keep the advanced microcomputer professional at the leading edge of DOS development and use.

## ***In a few recent issues of Microsystems you would have seen:***

- Reviews of four C compilers: BDS C, Small C, tiny c TWO™ and Whitesmiths C.
- A programming style comparison: Digital Research PL/I-80™ vs. Microsoft BASIC.
- Twenty-seven 16-Bit DOS compared.
- Virtual segment procedures under UCSD Pascal.
- An in-depth look at MP/M-80 II™.
- A simple 6-byte hexadecimal ASCII conversion routine.
- Using CP/M's undocumented "Autoload" feature.
- An explanation of double density disk controllers.



- A comparison of five popular S-100 disk controller cards.
- OS-1—a UNIX-like DOS with a CP/M adapter.

Every issue of *Microsystems* keeps you at the forefront of the industry in customizing software and adapting hardware to meet new requirements and standards. You'll also find industry news, book and new product reviews, plus our regular *Software Directory* listing newly available programs.

To get the high-level systems information you want, join the club of serious microcomputer professionals who subscribe to *Microsystems*. Use the coupon below to order, and save up to 33%!

### **PROFESSIONALS PLEASE NOTE:**

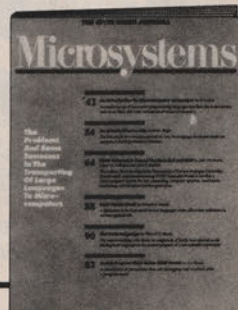
Your subscription to *Microsystems* may be tax deductible. Check with your accountant.

#### **Trademarks:**

XENIX: Microsoft; tiny c TWO: tiny c assoc.; PL/I-80, MS-DOS, MP/M-80 II: Digital Research.

#### **Registered Trademarks:**

CP/M, MP/M: Digital Research; UNIX: Bell Laboratories.



## **Microsystems**

CN 1987  
Morristown, New Jersey 07960

YES, enter my subscription to *Microsystems* for:

- ☐ 12 issues at \$19.97—I save 20%.
- ☐ 24 issues at \$36.97—I save 26%.
- ☐ 36 issues at \$49.97—I save 33%.

Savings based on full 12-issue subscription price of \$24.97.

Mr.  
Ms.

(please print full name)

8H11

Company

Address

City

State

Zip

CHECK ONE: ☐ Payment enclosed. ☐ Bill me later.

Offer valid in U.S. and possessions only. Please allow 30 to 60 days for delivery of first issue. Satisfaction guaranteed or a prompt refund for unmailed issues.

**NEW SUBSCRIBERS ONLY**





# BOOKS

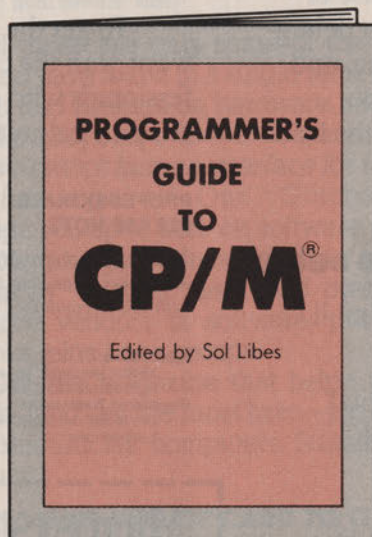
## Programmer's Guide to CP/M®

Edited by Sol Libes

This authoritative volume of reprints from *Microsystems* magazine is written for the programmer writing software for CP/M, or the individual installing CP/M on non-configured systems. In the *Programmer's Guide to CP/M* you'll find sections covering:

- An introduction to CP/M, including CP/M's structure and format.
- The CP/M connection, including interfacing to operating systems, file operations and more.
- CP/M on North Star Systems
- CP/M software reviews, including MODKOM, COMMX, MCALL, OS-1, BDS-0, tiny c TWO™ and Whitesmiths C
- CP/M utilities and enhancements
- CP/M 86
- CP/M software directories
- Applications program
- Assemblers
- BIOS
- Business and accounting programs
- Compiler, BASIC
- Data base systems
- Debuggers/Disassembler
- Editors, Formatters and Word Processors
- Encryption

—plus interpreters, languages, utilities, sort programs and more. CP/M is the most widely used, most commonly implemented operating system in the world. Here finally is the book that provides an in-depth look at its unique and practical features. 8½" x 11" softcover, 200 pp. \$10.95. #14C.



# NEW RELEASES!



Charge your order—  
**CALL TOLL FREE**  
**800-631-8112**

(In NJ 201-540-0445)!

(Charge and phone  
orders \$10 minimum)



Please have catalog at hand  
when ordering.

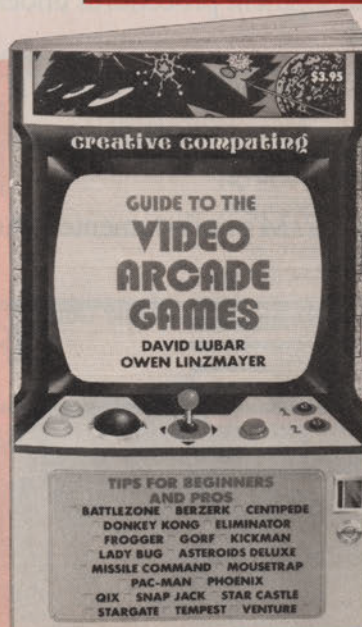
## Creative Computing Guide to the Video Arcade Games

by Owen Linzmayer and David Lubar

Here's an all-new, field-tested manual filled with savvy advice on how to beat coin-op video arcade games. The authors spent thousands of hours playing games to find the most effective strategies for winning. The result is a player's guide to the 20 most popular games, from Donkey Kong and Pac-Man to Missile Command and Centipede. The reader will learn about:

- Collisions
- Rates of fire
- Wraparound
- Horizontal and vertical movement
- Distractions
- Setting goals

and more, including detailed illustrations of tactical moves. This handy book is sure to save players hundreds of quarters and hours of practice time. 4-3/16" x 6 7/8", softcover, illustrated, 112 pp. \$3.95. #14A.





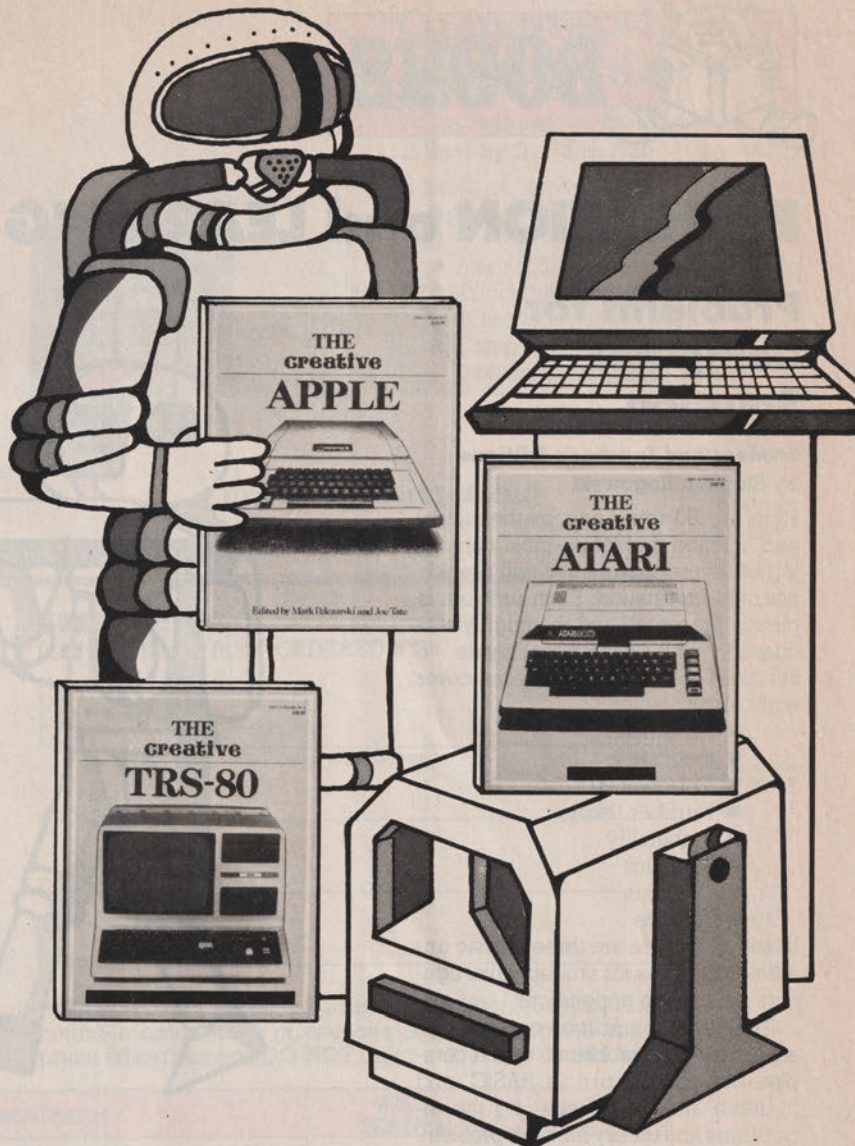


## Computers for Sea & Sky

by Stephen J. Rogowski

*Computers for Sea & Sky* is an outstanding new reference book for aviators and navigators that substitutes computer programs for many currently used charts and tables. The author, a noted computer lecturer and an FAA certified ground instructor, has developed a series of programs in BASIC—accurate to six decimal places—that cover areas such as *DME Speed Correction*, *Rate of Climb*, *Crosswind Computation*, *Latitude/Longitude Dimensions*, *Barometric Correction*, *Navigation by VOR*, *Distance by Vertical Angle*—and many more, in the fields of Aviation, Navigation, Mathematics, Speed/Distance, Charts, Meteorology and Time and the Sky.

For fliers and sailors everywhere, *Computers for Sea & Sky* will be an invaluable tool and a constant source of information. 8½" x 11", softcover, 100 pp. \$9.95. #14F.



## The Creative Apple®

Edited by Mark Pelczarski and Joe Tate

## The Creative Atari®

Edited by David Small, Sandy Small and George Blank

## The Creative TRS-80®

Edited by Ken Mazur

*Creative Computing* has produced the books that Apple, Atari and TRS-80 owners have been waiting for—three informative, challenging and stimulating collections of articles and features from *Creative Computing*. *The Creative Apple*, *The Creative Atari* and *The Creative TRS-80* each present a wealth of revised and updated material to help the Apple, Atari and TRS-80 owner make the most of his computer.

Each *Creative* volume features chapters covering areas such as:

- Graphics
- Commercial programs
- Programming tips and techniques
- Games
- Business and personal applications

Filled with useful information for both the new owner and the experienced programmer, these creative guides will help the Apple, Atari or TRS-80 user exploit the full potential of his computer in ways he never dreamed of.

Each volume is 8½" x 11", softcover, illustrated, 250 pp. (*Creative Apple* is 450 pp.). \$15.95 each. Specify edition and item number: APPLE: #18R; ATARI: #18B; TRS-80: #18Y.





## EDUCATION and LEARNING

### Problems for Computer Solution

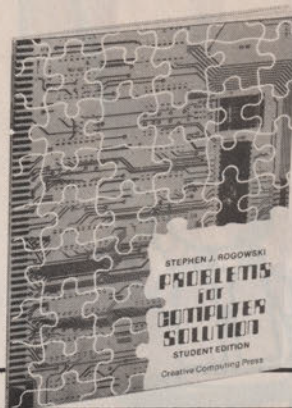
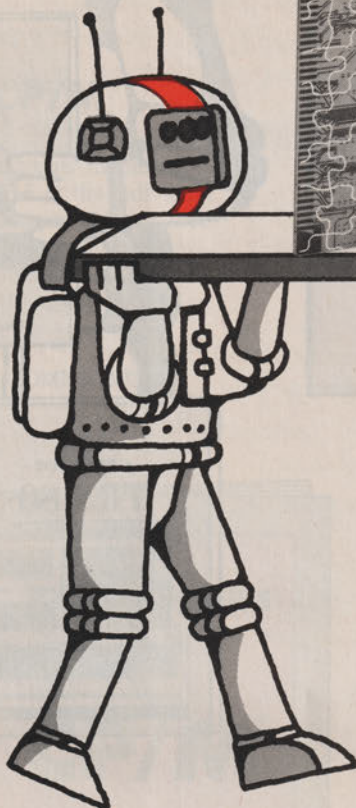
**Student and Teacher's Editions**  
by Stephen Rogowski

Here are 90 intriguing mathematical and science problems—most consisting of several parts—that will provide hours of fascination. Each problem is clearly presented and thoroughly discussed, with references made to standard math texts. Problems cover eight areas:

- Arithmetic
- Geometry
- Trigonometry
- Number theory
- Probability
- Statistics
- Calculus
- Science

In addition, there are three classic unsolved problems for student investigation, plus seven appendices.

The *Teacher's Edition* contains the solutions to the problems, with a complete listing and run in BASIC, and in-depth analyses explaining the algorithms and theory for each problem. Each edition is 8½" x 11" softcover. *Student Edition*: 106 pp. \$4.95. #9Z. *Teacher's Edition*: 182 pp. \$9.95. #9Y.



### Computer Coin Games

by Joe Weisbecker

This enjoyable book by the designer of the RCA 1802 computer makes it easy for anyone to understand how a computer works—using a few pennies and simple diagrams! The heads and tails represent common "flip-flop" switches, and together with 30 entertaining games illustrate how even the most complex computer circuits function. Says *Games* magazine: "You'll be delighted with the simplicity of the format and the complexity of the play. All you need is some common cents." 6" x 9" softcover, illustrated, 82 pp. \$3.95. #10R.

## GAMES! GAMES! GAMES!

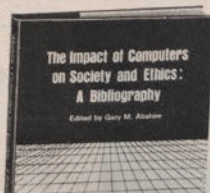
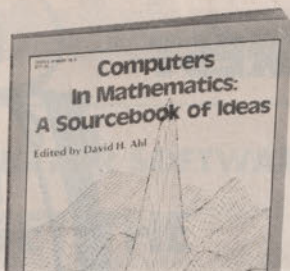
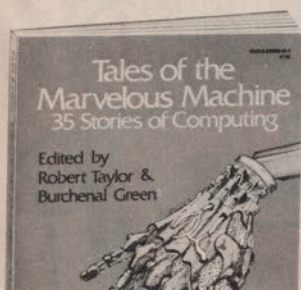
### Basic Computer Games

Edited by David H. Ahl

Here's a great collection of 101 fascinating games, all written in easy-to-use Microsoft® BASIC. Play Craps, Combat, Super Star Trek, Lunar LEM Rocket, Gomoko, Checkers, Boxing, Bowling—and 93 others. With an introduction, notes on Microsoft® BASIC, and conversion instructions for other BASICs. 8¼" x 11" softcover, illustrated, indexed, 183 pp. \$7.95. #6C.







## Computers in Mathematics:

### A Sourcebook of Ideas

Edited by David H. Ahl

Scores of ready-to-use, classroom-tested ideas in dozens of areas such as:

- Solving differential equations.
- Trigonometric functions and Tchebychev approximations.
- Computer simulations and problem solving in probability.

Binary counting, regression analysis, graphing red. Problems are in problems, leas. 8 1/2" 224 pp.

# ORDER FORM

## creative computing

39 East Hanover Avenue  
Morris Plains, NJ 07950

Dept. CA1X

### ORDERED BY:

**PEEL OFF ADDRESS LABEL FROM BACK COVER AND AFFIX HERE, OR FILL IN BELOW:**

(Make any necessary address corrections on label)

Mr.  
Mrs.  
Ms.

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

Daytime Phone (\_\_\_\_\_) \_\_\_\_\_

### SHIP TO:

(Only if different from "ORDERED BY")

Mr.  
Mrs.  
Ms.

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

**PLEASE NOTE:** To order magazine subscriptions, use one of the bound-in order cards or coupons accompanying the appropriate advertisement. **DO NOT** order magazines on this form.

PAGE NO.	ITEM NO.	QTY.	DESCRIPTION	PRICE PER ITEM	TOTAL PRICE

### POSTAGE & HANDLING

Total order amount	Postage to U.S., Canada or Mexico	Postage to all foreign countries (shipped air mail only)
\$5.00 or under	Add \$1.00	Add \$5.00
\$5.01 to \$10.00	Add \$1.50	Add \$5.00
\$10.01 to \$30.00	Add \$2.50	Add \$5.00
\$30.01 to \$40.00	Add \$4.50	Add \$10.00
\$40.01 to \$60.00	Add \$6.00	Add \$10.00
Over \$60	FREE postage!	Add \$10.00

☐ If your total order for books only is \$20 or more, check here for your FREE *Computer Rage* game!

For faster service,

**CALL TOLL FREE:**  
**800-631-8112**

(In NJ 201-540-0445)

Please have catalog at hand when ordering.

### CHECK METHOD OF PAYMENT:

(Charge and phone orders \$10 minimum)

- ☐ Check or money order enclosed \$ \_\_\_\_\_
- ☐ American Express
- ☐ MasterCard
- ☐ Visa

Card No. \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Signature \_\_\_\_\_

**INSTITUTIONS ONLY:** Purchase orders under \$50 not accepted.

**THANK YOU FOR YOUR ORDER!**

thics:

ding us?  
r slaves—  
ese ques-  
ith in this

ity  
iters  
sified by

ilities  
ies. 8 1/4" x  
5. #12E.

a computing

DE TO THE  
**VIDEO  
GAME  
AMES**  
VID LUBAR  
N LINZMEYER

IN BEGINNERS  
AND PROS  
BASIC, COBOL  
KONG, ELIMINATOR  
"GOLF" ECKHART  
ASTEROID, BRILLIANT  
WARRIOR, HOUSETRAP  
BANK, PHOENIX  
PAC-MAN, STAR CASTLE  
TEMPLE, VENTURE

ng Guide  
deo  
ames

uzmayer and

or complete de-  
35. #14A.





# BOOKS

## EDUCATION and LEARNING

### Problems for Computer Solutions

Student a  
by Stephe

Here are  
and scienc  
ing of sever  
hours of fa  
clearly pre  
cussed, v  
standard  
eight area

- A
- G
- T
- N
- P
- S
- C
- S

In addition  
solved pro  
tion, plus  
The Te  
solutions t  
plete listi  
in-depth  
gorithms  
Each edit  
Student E  
Teacher's

GAL



**CALL  
TOLL FREE**  
to place your credit-card  
order! Call  
**800-631-8112**  
(In NJ call 201-540-0445)  
Please have catalog at hand  
when ordering.

### FREE GIFT with book orders of \$20 or more!



Order \$20 or more from our book section, and we'll send you the *Computer Rage* game absolutely FREE! *Computer Rage* is a fascinating board game that's fun—and educational—for computer buffs of all ages. You try to move your three programs from "Input" to "Output" before the other players do, avoiding hazards like program bugs, power failures, scheduling changes and priority interrupts.

*Computer Rage* has many parallels to actual computer operation. The more you play, the more you learn about computer functions!

Order just \$20 worth of books, and *Computer Rage* is yours FREE for you and your friends to enjoy!

### BEAT COIN-OP VIDEO ARCADE GAMES!

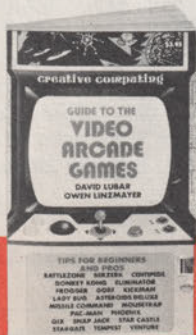
Here's the games book you've been waiting for—*Creative Computing GUIDE TO THE VIDEO ARCADE GAMES!* It's an all-new, field-tested manual full of savvy advice and sound tips on how to get the most from all those quarters!

*GUIDE TO THE VIDEO ARCADE GAMES* is packed with detailed information on:

- Collisions
- Bonuses
- Rates of fire
- Wraparound
- Horizontal and vertical movement
- Distractions

—and much more! Whether you're a new convert or an old pro, you'll find a wealth of hard-won information and detailed, practical illustrations to help you rack up record scores or prolong your games.

4-3/16" x 6 1/2".  
Softcover,  
Illustrated, 112 pp.  
\$3.95. #14A



**USE OTHER  
SIDE TO  
ORDER**



**OUTSTANDING  
BOOKS  
YOU MAY  
HAVE  
OVERLOOKED:**

See pages 6 and 7

### NEW! NEW! NEW!

**Great books for Apple®, Atari® and TRS-80® owners!**

*Creative Computing* has produced the books you've been waiting for—the most informative, challenging and stimulating volumes yet written for the Apple, Atari, or TRS-80 owner!

THE CREATIVE APPLE, THE CREATIVE ATARI and THE CREATIVE TRS-80 are each a collection of articles and features from past issues of *Creative Computing*. Each volume presents a wealth of material, revised and updated, to help the Apple, Atari or TRS-80 owner make the most of his computer.

Each lavishly illustrated volume contains material on graphics, programming, commercial software, games, business and home applications, and much more!

Whether you're a new owner or an experienced programmer, whether you use your computer for fun or for work, get the *Creative* guide for your computer and get more out of it than you ever dreamed!



**THE CREATIVE ATARI:**  
8 1/4" x 11", Softcover,  
Illustrated, 250 pp.  
\$15.95. #18B



**THE CREATIVE APPLE:**  
8 1/4" x 11", Softcover,  
Illustrated, 450 pp.  
\$15.95. #18R



**THE CREATIVE TRS-80**  
8 1/4" x 11", Softcover,  
Illustrated, 250 pp.  
\$15.95. #18Y



BEFORE SEALING:

• Is order form completed correctly? • Did you affix your mailing label from the back cover, or fill in your full name and address? • Is your payment or credit card information enclosed? **THANK YOU FOR YOUR ORDER!**

DETACH ENVELOPE HERE  
**MOISTEN FLAP,  
FOLD AND SEAL**

## LET US SEND OUR CATALOG TO YOUR FRIENDS!

Please fill in names below:

Mr. Mrs. Ms.	_____	(please print full name)	Mr. Mrs. Ms.	_____	(please print full name)
Address	_____	Apt.	Address	_____	Apt.
City	_____		City	_____	
State/Zip	_____		State/Zip	_____	



**CALL TOLL FREE** to place your charge order! **800-631-8112** (In NJ 201-540-0445)  
Please have catalog at hand when ordering.



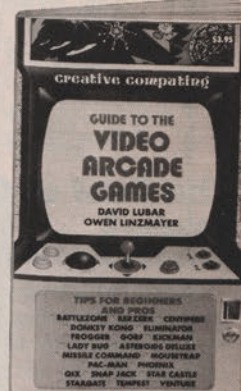
## More Basic Computer Games

Edited by David H. Ahl and Steve North

In this sequel to *Basic Computer Games* are 84 challenging new games, complete with sample runs, program listings and illustrations. All games run in Microsoft BASIC. Race your Ferrari, Become a Millionaire, Joust with a Knight, Crack a Safe—and more. Conversion table to other BASICs included. 8 1/4" x 11" softcover, illustrated. 200 pp. \$7.95 #6C2.

### TRS-80 Edition More Basic Computer Games

Same games as *More Basic Computer Games*, adapted specifically for the TRS-80. \$7.95. #6C4.



### Creative Computing Guide to the Video Arcade Games

by Owen Linzmayer and David Lubar

See page 6 for complete description. \$3.95. #14A.

## Computers in Mathematics:

### A Sourcebook of Ideas

Edited by David H. Ahl

Scores of ready-to-use, classroom-tested ideas in dozens of areas such as:

- Solving differential equations.
- Trigonometric functions and Tchebychev approximations.
- Computer simulations and problem solving in probability.

Binary counting, regression analysis, practice programs, art and graphing programs and more are covered. Program listings and sample runs are included, plus over 250 problems, puzzles and programming ideas. 8 1/2" x 11" softcover, illustrated, 224 pp. \$15.95. #12D.

## The Impact of Computers on Society and Ethics:

### A Bibliography

by Gary M. Abshire

Where is the computer leading us? Will we become masters—or slaves—of computer technology? These questions and others are dealt with in this bibliography. Includes:

- Computers in our society
- Changes due to computers
- Social problems intensified by improper computer use
- Computerized society
- Professionals' responsibilities

In all, 1,920 alphabetical entries. 8 1/4" x 5 3/4" hardcover, 128 pp. \$17.95. #12E.





# BOOKS

## EDUCATION and LEARNING

### Problems for Computer Solutions

Student a  
by Stephe

Here are 50  
and scienc  
ing of sever  
hours of fa  
clearly pre  
cussed, v  
standard  
eight area

- Ar
- G
- Th
- N
- P
- St
- C
- S

In addition  
solved pro  
tion, plus  
The Te  
solutions t  
plete listi  
in-depth a  
gorithms  
Each edit  
Student E  
Teacher's

GAL



**CALL TOLL FREE**  
to place your credit-card  
order! Call  
**800-631-8112**  
(In NJ call 201-540-0445)  
Please have catalog at hand  
when ordering.

**FREE GIFT**



### BEAT COIN-OP VIDEO ARCADE GAMES

Here's the games book you've been waiting for—*Creative Computing GUIDE TO THE VIDEO ARCADE GAMES*! It's an all-new, field-tested manual full of savvy advice and sound tips on how to get the most from all those quarters!

*GUIDE TO THE VIDEO ARCADE GAMES* is packed with detailed information on:

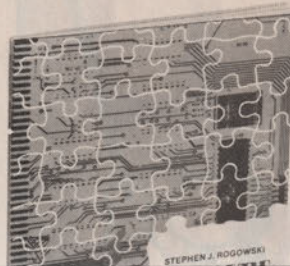
- Collisions
- Bonuses
- Rates of fire
- Wraparound
- Horizontal and vertical movement
- Distractions

—and much more! Whether you're a new convert or an old pro, you'll find a wealth of hard-won information and detailed, practical illustrations to help you rack up record scores or prolong your games.

4-3/16" x 6 1/4".  
Softcover,  
Illustrated, 112 pp.  
\$3.95. #14A



**USE OTHER SIDE TO ORDER**



Dept. CA1X

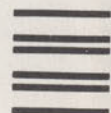
### BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 41 MORRIS PLAINS, NJ

POSTAGE WILL BE PAID BY ADDRESSEE

### Creative computing

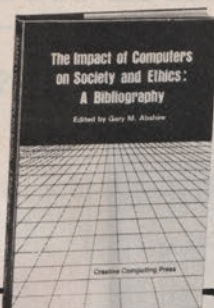
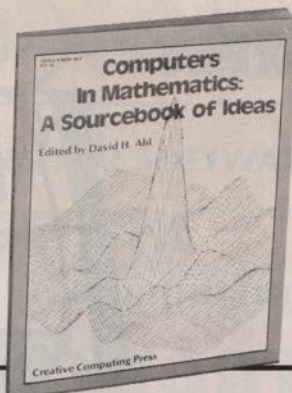
39 East Hanover Avenue  
Morris Plains, NJ 07950



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES





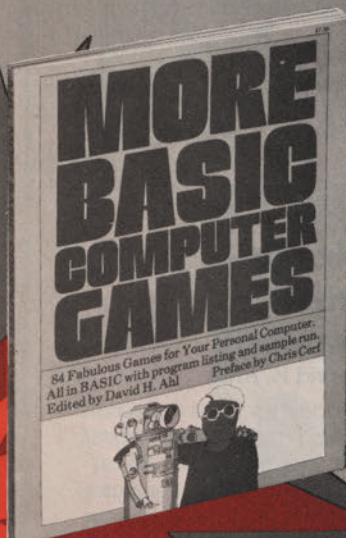
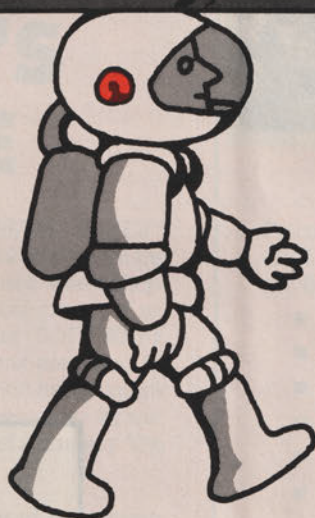


## Tales of the Marvelous Machine:

### 35 Stories of Computing

Edited by Robert Taylor and Burchenal Green

In this superb anthology, writers such as Frederick Pohl, Charles Mossman and George Chesbro explore themes involving computers and the future, computers in society, and the relationship between computers and humans. Can computers wish? Can men fall in love with computers? Are we all part of a large organic computer? This volume deals with these questions and many others. 8½" x 11" softcover, illustrated, 272 pp. \$7.95. #12B.



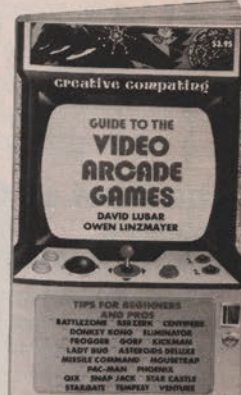
## More Basic Computer Games

Edited by David H. Ahl and Steve North

In this sequel to *Basic Computer Games* are 84 challenging new games, complete with sample runs, program listings and illustrations. All games run in Microsoft BASIC. Race your Ferrari, Become a Millionaire, Joust with a Knight, Crack a Safe—and more. Conversion table to other BASICs included. 8½" x 11" softcover, illustrated. 200 pp. \$7.95 #6C2.

### TRS-80 Edition More Basic Computer Games

Same games as *More Basic Computer Games*, adapted specifically for the TRS-80. \$7.95. #6C4.



## Creative Computing Guide to the Video Arcade Games

by Owen Linzmayer and David Lubar

See page 6 for complete description. \$3.95. #14A.

## Computers in Mathematics:

### A Sourcebook of Ideas

Edited by David H. Ahl

Scores of ready-to-use, classroom-tested ideas in dozens of areas such as:

- Solving differential equations.
- Trigonometric functions and Tchebychev approximations.
- Computer simulations and problem solving in probability.

Binary counting, regression analysis, practice programs, art and graphing programs and more are covered. Program listings and sample runs are included, plus over 250 problems, puzzles and programming ideas. 8½" x 11" softcover, illustrated, 224 pp. \$15.95. #12D.

## The Impact of Computers on Society and Ethics:

### A Bibliography

by Gary M. Abshire

Where is the computer leading us? Will we become masters—or slaves—of computer technology? These questions and others are dealt with in this bibliography. Includes:

- Computers in our society
- Changes due to computers
- Social problems intensified by improper computer use
- Computerized society
- Professionals' responsibilities

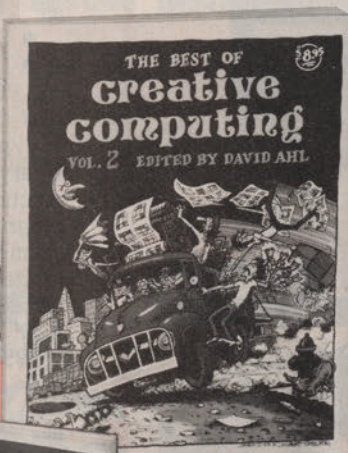
In all, 1,920 alphabetical entries. 8½" x 5¼" hardcover, 128 pp. \$17.95. #12E.





# BOOKS

## GENERAL INTEREST



### The Best of Creative Computing Volume 1

Edited by David H. Ahl

Here's a giant collection of all the articles appearing in *Creative Computing*, Volume 1, Numbers 1 through 6. You'll find games, puzzles, programs, stories and learning activities ranging over education, recreation and other areas. More than 200 contributors are represented, from high-school student to U.S. Senator to science-fiction author. 8½" x 11", softcover, 328 pp. \$8.95. #6A.

### The Best of Creative Computing Volume 2

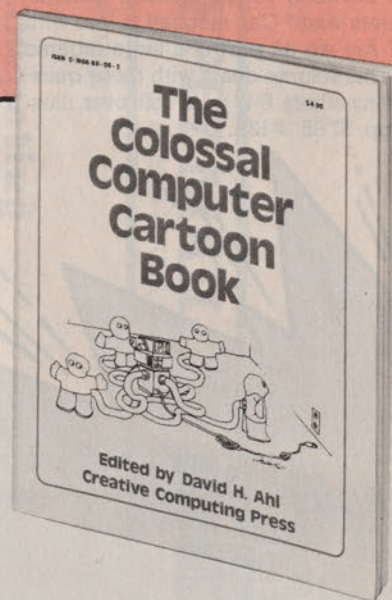
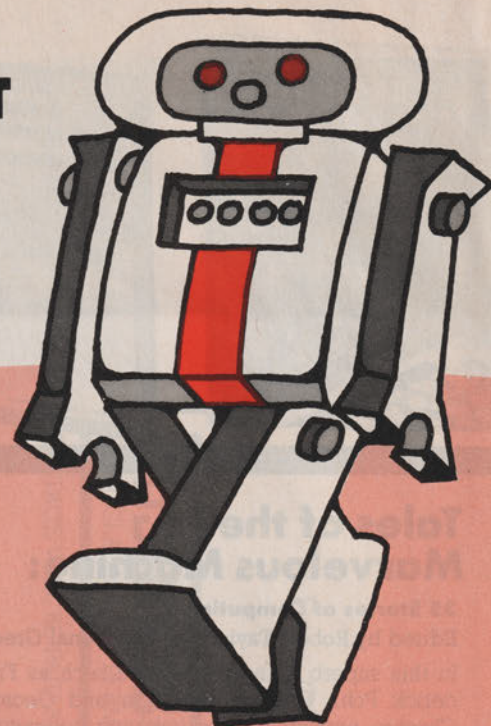
Edited by David H. Ahl

This book features the best stories, programs, articles and reviews from *Creative Computing*, Volume 2. You'll find information on languages and programming theory, artificial intelligence, computers in education and the arts, and more. 67 pages are filled with puzzles, programs and learning activities. 8½" x 11", softcover, 336 pp. \$8.95 #6B.

### The Best of Creative Computing Volume 3

Edited by David H. Ahl and Burchenal Green

This volume of material from *Creative Computing*, Volume 3, includes features on technology, public access, educational and medical applications, and computers in music. Contains resource listings and reviews of calculators, games, software, hardware and books, plus 96 pages of programs and activities. 8½" x 11", softcover, 336 pp. \$8.95. #12C.



### The Colossal Computer Cartoon Book

Edited by David H. Ahl

Here's the biggest and best collection of cartoons and comic strips about computers! In 15 subject areas, 36 cartoonists poke fun at robots, computer dating, glitches and bugs, computer games, computers in the office, lab and home—and much more! 8½" x 11", softcover, 120 pp. \$5.95. #6G.





# BUYERS GUIDE

## SEARCHING FOR SOFTWARE?

### GET THE creative computing SOFTWARE BUYER'S GUIDE

The CREATIVE COMPUTING SOFTWARE BUYER'S GUIDE is the *one* convenient place to look first for all the facts, figures and expert analysis you need when shopping for software! A comprehensive assemblage of reprints from *Creative Computing*, the SOFTWARE BUYER'S GUIDE is easy to use. Programs are listed by category for fast reference. Each evaluation has a "quick reference box" showing system requirements, format, language, price, manufacturer, and a brief summary. The SOFTWARE BUYER'S GUIDE covers:

- *Applications software*, including word processing, financial and investment analysis, education, graphics, music, and more.
- *Systems software*, including operating systems, languages and compilers, disk utilities, data base management and other systems programs.
- *Manufacturers*, in a directory cross-referenced to type of computer.

In all, the SOFTWARE BUYER'S GUIDE reviews over 150 programs. The most comprehensive overview of new systems available anywhere, the SOFTWARE BUYER'S GUIDE will save any software shopper time, trouble and money. 8½" x 11" softcover, illustrated. \$3.95. #42.



## NEED HELP BUYING A COMPUTER OR PERIPHERAL?

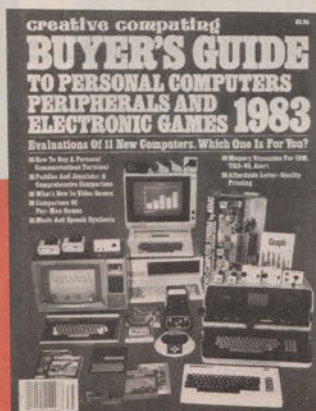
For comprehensive, easy-to-use information about buying nearly anything using microcomputer technology, get the

### creative computing BUYER'S GUIDE TO PERSONAL COMPUTERS, PERIPHERALS AND ELECTRONIC GAMES!

Full of honest, expert hardware evaluations, the BUYER'S GUIDE contains all the help you'll need to shop wisely. In the BUYER'S GUIDE you'll find:

- How to select the right computer.
- Evaluations of specific personal computers.
- Tips on buying peripherals of all kinds.
- Reviews of peripherals.
- Music synthesis equipment.
- Comprehensive evaluations of joysticks, paddles and game port extenders.
- Video game systems and software.
- A roundup of electronic toys and games.
- Electronic and computerized learning aids.
- Video products for computer users.
- Selected microprocessor-based consumer electronic products.

The BUYER'S GUIDE will save computer shoppers the trouble and expense of searching through dozens of books and magazines for facts, figures and evaluations. It's the most comprehensive directory to the latest in computer technology of its kind! COMPUTER BUYER'S GUIDE: 8½" x 11" softcover, illustrated. \$3.95. #45.





# Are you getting the most from your business computer?

Get the best source of information available on microcomputer use:  
**Small Business Computers**

**I**t pays to consult *Small Business Computers* before you or your company expand your software capabilities, look at new peripherals, or even consider your first office microcomputer. Here's why:

We write only for people who are professionally involved with business microcomputer systems. You won't find any space games or home budget programs in our pages.

Instead, you will find feature after feature on business hardware and software,

You'll also evaluate a wide range of hardware and peripherals, including video display terminals, disk storage equipment, printers (dot matrix and daisy wheel) and modems.

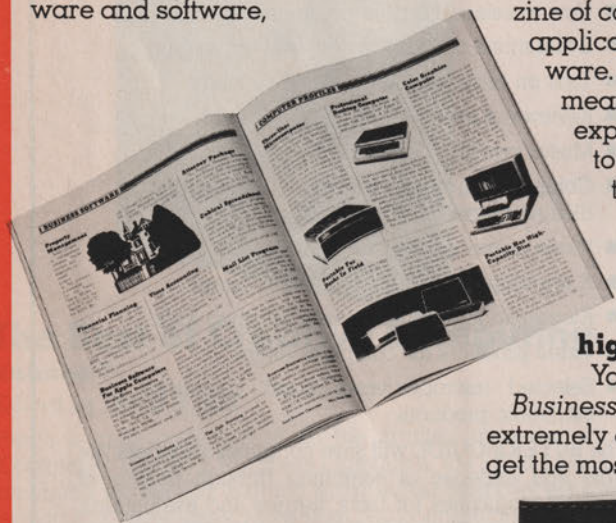
Every evaluation and review in *Small Business Computers* is conducted by our own panel of 21 top computer-science experts. What's more, *Small Business Computers* comes to you from the publishers of *Creative Computing*, the Number One magazine of computer applications and software. All of which

means we have the expertise and resources to guarantee that you get the most authoritative, up-to-date analyses and advice available anywhere.

**Cost effectiveness: high value plus low price**

You can see why *Small Business Computers* will be extremely effective in helping you get the most from a business

computer system. Now for the "cost" part: You can subscribe to *Small Business Computers* for as little as \$14.97 and save 25% off the full 12-issue subscription rate. Or take 24 or 36 issues and save up to 35%!



Whatever your level of involvement with business microcomputers, it makes sense to get the best source of practical information around. Why not take a moment to fill in and mail the coupon now?

plus applications you can use right now, and later as your needs grow.

**SMALL BUSINESS COMPUTERS** CN 1988, Morristown, New Jersey 07960

**YES!** Enter my subscription to **SMALL BUSINESS COMPUTERS** for:

- ☐ 12 issues at \$14.97—I save 25%.
- ☐ 24 issues at \$27.97—I save 30%.
- ☐ 36 issues at \$38.97—I save 35%.

Savings based on full 12-issue subscription rate of \$19.97. Offer valid in U.S. and possessions only. Please allow 30 to 60 days for delivery of first issue.



CHECK ONE:

- ☐ Payment enclosed.
- ☐ Purchase order enclosed.
- ☐ Bill me later.

NAME \_\_\_\_\_ (please print full name) 8H09

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**Your subscription to SMALL BUSINESS COMPUTERS may be tax deductible. Check with your accountant.**

**SMALL BUSINESS COMPUTERS** critically reviews a variety of software packages for:

- Accounting
- Word processing
- Data base management
- Business planning
- Financial modeling
- Spreadsheet analysis
- File and record handling

—and much more, from list management to project control.



## Get the most from your business computer—get SMALL BUSINESS COMPUTERS!

**YES,** enter my subscription to SMALL BUSINESS COMPUTERS for:

- ☐ 12 issues at \$14.97—I save 25%!  
☐ 24 issues at \$27.97—I save 30%!  
☐ 36 issues at \$38.97—I save 35%!  
 Savings based on full 12-issue subscription price of \$19.97.

**CHECK ONE:** ☐ Payment enclosed. ☐ Bill me later.

NAME \_\_\_\_\_ (please print full name) 8H09

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

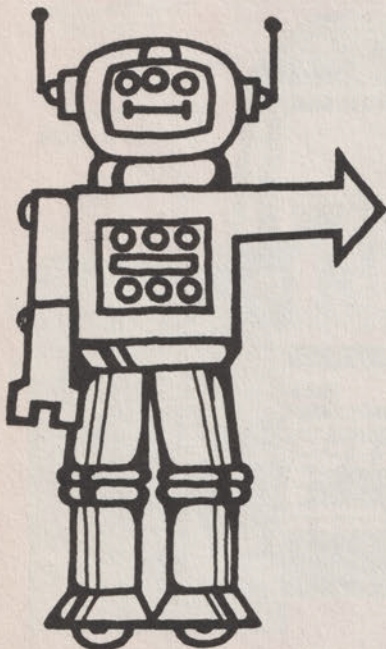
STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Offer valid in U.S. and possessions only. Please allow 30 to 60 days for delivery of first issue.

4900 ☐ Send me 12 issues of *Microsystems* for \$19.97. (Full subscription price \$24.97.)



◆ Detach here and mail today. ◆



# DON'T FORGET!

Order \$20 or more from our wide selection of books, and we'll send you, *absolutely FREE*, our fascinating board game **COMPUTER RAGE!** Fun for the whole family and educational, **COMPUTER RAGE** will entertain you for hours, while showing you how a computer system works. And best of all it's yours **FREE** with your \$20 book order!

◆ Detach here and mail today. ◆

## Get the most from your business computer—get SMALL BUSINESS COMPUTERS!

**YES,** enter my subscription to SMALL BUSINESS COMPUTERS for:

- ☐ 12 issues at \$14.97—I save 25%!  
☐ 24 issues at \$27.97—I save 30%!  
☐ 36 issues at \$38.97—I save 35%!  
 Savings based on full 12-issue subscription price of \$19.97.

**CHECK ONE:** ☐ Payment enclosed. ☐ Bill me later.

NAME \_\_\_\_\_ (please print full name) 8H09

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

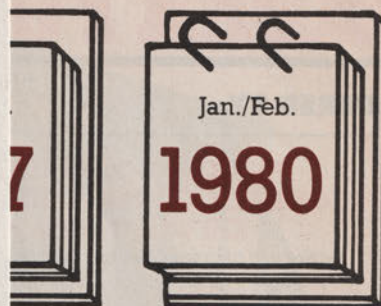
STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Offer valid in U.S. and possessions only. Please allow 30 to 60 days for delivery of first issue.

4900 ☐ Send me 12 issues of *Microsystems* for \$19.97. (Full subscription price \$24.97.)

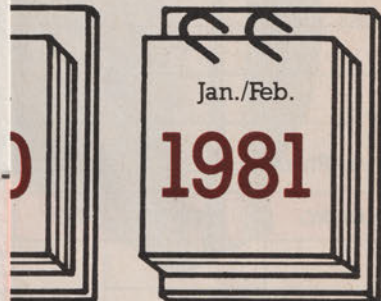


T AVAILABLE ISSUES:



computing

Microsystems



ness  
ers

Sync

**BINDERS** hold a year's worth of issues on individual snap-in rods, organizing them into one volume. \$7.95 each; three for \$22.50; six for \$42.95. #Z-MB.



**NOTE:**

Mixed titles may be ordered for quantity prices.

**1-8112** (In NJ 201-540-0445)

ring.

n)



# Are you getting your business...

Get the best source...

**I**t pays to consult *Small Business Computers* before you or your company expand your software capabilities, look at new peripherals, or even consider your first office microcomputer.

Here's why:

We write only for people who are professionally involved with business microcomputer systems. You won't find any space games or home budget programs in our pages.

Instead, you will find feature after feature on business hardware and software,



plus applications you can use right now, and later as your needs grow.

**SMALL BUSINESS | COMPUTERS** CN 1988, Morris  
New Jersey 07960

**YES!** Enter my subscription to **SMALL BUSINESS COMPUTERS** for:

- ☐ 12 issues at \$14.97—I save 25%.
- ☐ 24 issues at \$27.97—I save 30%.
- ☐ 36 issues at \$38.97—I save 35%.

Savings based on full 12-issue subscription rate of \$19.97. Offer valid in U.S. and possessions only. Please allow 30 days for delivery of first issue.

NAME \_\_\_\_\_ (please print)  
COMPANY \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_

## BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 738 MORRISTOWN, NJ

POSTAGE WILL BE PAID BY ADDRESSEE

**SMALL BUSINESS | COMPUTERS**

CN 1988  
Morristown, NJ 07960

NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

Save  
up to  
35%—  
**ORDER  
TODAY**



Detach here  
and mail  
today.

Use other side  
of cards to order.



Detach here  
and mail  
today.

## BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 738 MORRISTOWN, NJ

POSTAGE WILL BE PAID BY ADDRESSEE

**SMALL BUSINESS | COMPUTERS**

CN 1988  
Morristown, NJ 07960

NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES





# BACK ISSUES

## BACK ISSUES

**Creative Computing**  
**Microsystems**  
**Small Business Computers**  
**Sync**

Add to your collection of computer magazines while copies are still available.

**TO ORDER**, choose the issues you want and write the months and years in the "Item Number" spaces provided on the order form. If a particular issue is out of stock, your payment will be refunded promptly.

Back issues \$4 each.

### EARLIEST AVAILABLE ISSUES:



*Creative Computing*



*Microsystems*



*Small Business Computers*



*Sync*

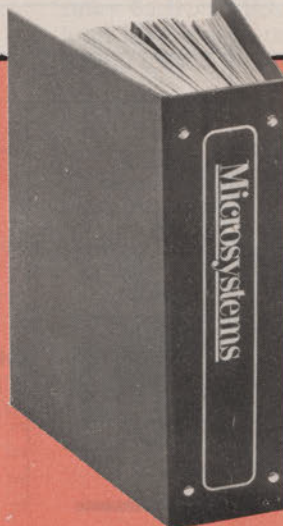


## BINDERS

### SHELF CONSCIOUS?

#### Organize your magazines!

Binders and slipcases are now available for *Creative Computing*, *Microsystems*, *Small Business Computers* and *Sync*! Binders and cases are durably constructed of luxury-look leatherette over high-quality binder board. Both styles are custom-designed for those or any other magazines you save. Size, color and imprint is selected by the publisher. Free transfer foil is included for marking dates and volume numbers. Please specify magazine title when ordering.



**BINDERS** hold a year's worth of issues on individual snap-in rods, organizing them into one volume. \$7.95 each; three for \$22.50; six for \$42.95. #Z-MB.



**SLIPCASES** elegantly store your issues for individual reference. \$6.95 each; three for \$19.75; six for \$37.50. #Z-MC.

**NOTE:**  
Mixed titles may be ordered for quantity prices.



**CALL TOLL FREE** to place your charge order! **800-631-8112** (In NJ 201-540-0445)

Please have catalog at hand when ordering.

(Charge and phone orders \$10 minimum)



# ORDER FORM

Mail to:  
**creative computing**  
 Dept. CA6X, 39 East Hanover Avenue  
 Morris Plains, NJ 07950

## ORDERED BY:

**PEEL OFF ADDRESS LABEL  
FROM BACK COVER AND AFFIX HERE,  
OR FILL IN BELOW:**

(Make any necessary address corrections on label)

Mr. \_\_\_\_\_  
 Mrs. \_\_\_\_\_  
 Ms. \_\_\_\_\_  
 (please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

Daytime Phone (\_\_\_\_\_) \_\_\_\_\_

## SHIP TO:

(Only if different from "ORDERED BY")

Mr. \_\_\_\_\_  
 Mrs. \_\_\_\_\_  
 Ms. \_\_\_\_\_  
 (please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

**PLEASE NOTE:** To order magazine subscriptions, use one of the bound-in order cards or coupons accompanying the appropriate advertisement. **DO NOT** order magazines on this form.

PAGE NO.	ITEM NO.	QTY.	DESCRIPTION	PRICE PER ITEM	TOTAL PRICE

## POSTAGE & HANDLING

Total order amount	Postage to U.S., Canada or Mexico	Postage to all foreign countries (shipped air mail only)
\$5.00 or under	Add \$1.00	Add \$5.00
\$5.01 to \$10.00	Add \$1.50	Add \$5.00
\$10.01 to \$30.00	Add \$2.50	Add \$5.00
\$30.01 to \$40.00	Add \$4.50	Add \$10.00
\$40.01 to \$60.00	Add \$6.00	Add \$10.00
Over \$60	FREE postage!	Add \$10.00

☐ If your total order for books only is \$20 or more, check here for your FREE *Computer Rage* game!

For faster service,



**CALL TOLL FREE:  
800-631-8112**



(In NJ 201-540-0445)

Please have catalog at hand when ordering.

Total order	\$
NJ residents add 5% sales tax	\$
Postage & handling (see box for amount)	\$
<b>TOTAL AMOUNT</b>	<b>\$</b>

## CHECK METHOD OF PAYMENT:

(Charge and phone orders \$10 minimum)

- ☐ Check or money order enclosed \$ \_\_\_\_\_  
☐ American Express  
☐ MasterCard  
☐ Visa

Card No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

**INSTITUTIONS ONLY:** Purchase orders under \$50 not accepted.

**THANK YOU  
FOR YOUR  
ORDER!**

## LET US SEND OUR CATALOG TO YOUR FRIENDS!

Please fill in names below:

Mr. \_\_\_\_\_  
 Mrs. \_\_\_\_\_  
 Ms. \_\_\_\_\_  
 (please print full name)

Mr. \_\_\_\_\_  
 Mrs. \_\_\_\_\_  
 Ms. \_\_\_\_\_  
 (please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

State/Zip \_\_\_\_\_

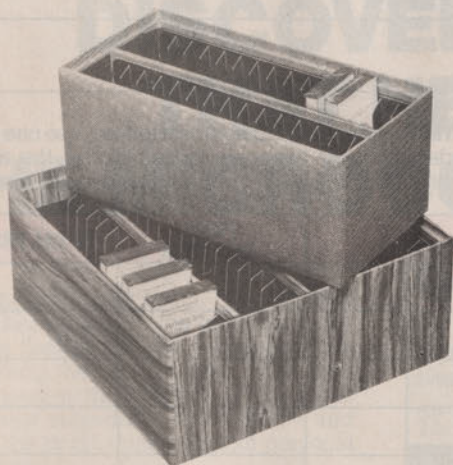
DETACH HERE, FOLD ORDER FORM, AND MAIL IN ENVELOPE





# CASES

## A CASE FOR GETTING ORGANIZED



### CASSETTE CASES

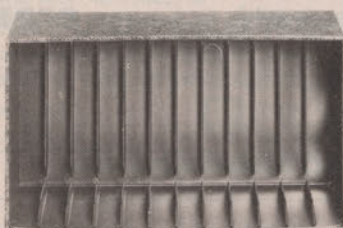
Put your tapes in order with these handy cassette cases. Each cassette gets its own slot. Pressure-sensitive labels are included for easy identification. Available in a variety of colors.\* For 30 or 60 cassettes.

#### 30-Tape Cassette Case

\$14.95 each; 3 for \$39.95. #JC-30.

#### 60-Tape Cassette Case

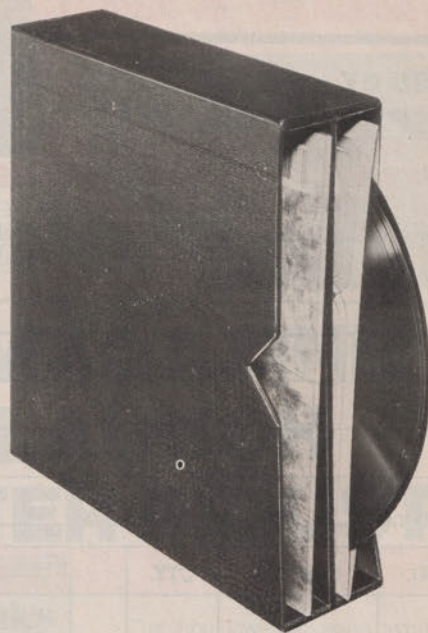
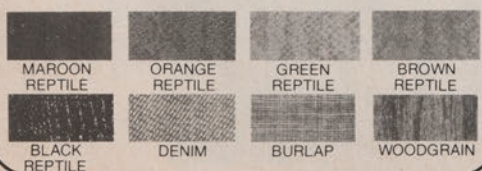
\$19.95 each; 2 for \$37.95. #JC-60



### VIDEOCASSETTE CASES

No more pile of tapes on the TV set! These handy cases organize and protect your valuable videocassettes. Holds twelve VHS or Beta cassettes. Designer colors only. \$12.95 each; 3 for \$34.95. #Z-VC.

#### DESIGNER COLORS



### RECORD CASES

Protect your record collection with these deluxe record cases. Each one holds 20 12" LP albums. Center divider helps keep your records organized. Specify color\* \$8.95 each; 3 for \$23.95. #J-R12.



### FILES FOR EVERYTHING

Now you can organize your important papers...newsletters...maps...receipts...photographs...clippings...anything you like! Order these handsome files in the sizes and colors\* you prefer. Available with or without drawer.

#### Storage Files With Drawers:

(Add "D" after item number and specify color\* and size)  
\$10.95 each; 3 for \$29.95; 6 for \$58.95.

#### Storage Files Without Drawers:

(Add "S" after item number and specify color\* and size)  
\$6.50 each; 3 for \$17.95; 6 for \$34.95.

#80 8 $\frac{1}{2}$ "h x 4 $\frac{1}{4}$ "w x 5 $\frac{1}{2}$ "d (inside dimensions)

#63 10 $\frac{1}{4}$ "h x 4 $\frac{1}{2}$ "w x 7" d

#49 11 $\frac{3}{8}$ "h x 3 $\frac{1}{2}$ "w x 8 $\frac{1}{2}$ "d

#103 12 $\frac{1}{2}$ "h x 3 $\frac{1}{2}$ "w x 9" d

#165 14 $\frac{1}{4}$ "h x 4 $\frac{1}{2}$ "w x 11" d



# ORDER FORM

Mail to:  
**creative computing**  
 Dept. CA6X, 39 East Hanover Avenue  
 Morris Plains, NJ 07960

## ORDERED BY:

**PEEL OFF ADDRESS LABEL  
 FROM BACK COVER AND AFFIX HERE,  
 OR FILL IN BELOW:**

(Make any necessary address corrections on label)

Mr.  
 Mrs.  
 Ms.

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

Daytime Phone (\_\_\_\_\_) \_\_\_\_\_

## SHIP TO:

(Only if different from "ORDERED BY")

Mr.  
 Mrs.  
 Ms.

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

**PLEASE NOTE:** To order magazine subscriptions, use one of the bound-in order cards or coupons accompanying the appropriate advertisement. **DO NOT** order magazines on this form.

PAGE NO.	ITEM NO.	QTY.	DESCRIPTION	PRICE PER ITEM	TOTAL PRICE

## POSTAGE & HANDLING

Total order amount	Postage to U.S., Canada or Mexico	Postage to all foreign countries (shipped air mail only)
\$5.00 or under	Add \$1.00	Add \$5.00
\$5.01 to \$10.00	Add \$1.50	Add \$5.00
\$10.01 to \$30.00	Add \$2.50	Add \$5.00
\$30.01 to \$40.00	Add \$4.50	Add \$10.00
\$40.01 to \$60.00	Add \$6.00	Add \$10.00
Over \$60	FREE postage!	Add \$10.00

☐ If your total order for books only is \$20 or more, check here for your **FREE Computer Rage** game!

For faster service,



**CALL TOLL FREE:  
 800-631-8112**

(In NJ 201-540-0445)

Please have catalog at hand when ordering.



Total order	\$
NJ residents add 5% sales tax	\$
Postage & handling (see box for amount)	\$
<b>TOTAL AMOUNT</b>	<b>\$</b>

## CHECK METHOD OF PAYMENT:

(Charge and phone orders \$10 minimum)

- ☐ Check or money order enclosed \$ \_\_\_\_\_  
☐ American Express  
☐ MasterCard  
☐ Visa

**THANK YOU  
 FOR YOUR  
 ORDER!**

Card No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

**INSTITUTIONS ONLY:** Purchase orders under \$50 not accepted.

## LET US SEND OUR CATALOG TO YOUR FRIENDS!

Please fill in names below:

Mr.  
 Mrs.  
 Ms.

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

Mr.  
 Mrs.  
 Ms.

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

DETACH HERE, FOLD ORDER FORM, AND MAIL IN ENVELOPE

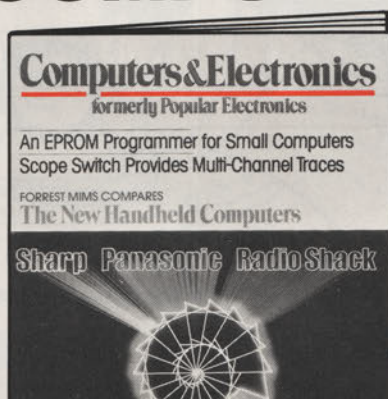


# DISCOVER THE MAGAZINE THAT HELPED LAUNCH THE MICROCOMPUTER INDUSTRY

Incredible as it may seem, *Popular Electronics* helped launch the microcomputer industry. Back in 1975, we published plans for building the first powerful microcomputer based on the 8080 cpu. These plans generated incredible excitement—and started the world thinking about personal computing.

Since then, we've added more coverage of personal computing. Today, so much of the magazine is devoted to microcomputers that we've changed our name to...

**Computers & Electronics**



The first low-cost voice synthesizer. The first low-cost logic analyzer. The first 1802-based microcomputer (ELF). The first low-cost function generator. The first gas-laser communicator (awarded a place in the Smithsonian Institution). The first low-cost color graphics computer module. An interface to transfer narrow line listings from your TRS-80 Pocket Computer to either a printer or CRT screen....

As you can see, our construction projects, while not necessarily complex (thanks to multifunction IC chips), will keep you at the forefront of technological

And  
con-  
your  
it's  
or a  
con-

d—

orld's  
onal  
sub-  
our  
sub-  
je of  
upon

1%  
7—

369

CE-CA-10

## 19% OFF=GOOD DEAL ON COMPUTERS & ELECTRONICS

☐ One year (12 issues) of  
**COMPUTERS & ELECTRONICS**  
(formerly POPULAR ELECTRONICS)  
for \$12.97—19% off the full subscription price of \$15.97.

☐ Two years for \$22.97. ☐ Three years for \$31.97.

**NEW SUBSCRIBERS ONLY**

Mr. Mrs. Ms. \_\_\_\_\_  
(please print full name) 8H369

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

CHECK ONE: ☐ Payment enclosed ☐ Bill me later.

49619 ☐ Send me one year of *Creative Computing* for \$19.97. (Full subscription price \$24.97)

☐ One year (12 issues) of  
**COMPUTERS & ELECTRONICS**  
(formerly POPULAR ELECTRONICS)  
for \$12.97—19% off the full subscription price of \$15.97.

☐ Two years for \$22.97. ☐ Three years for \$31.97.

**NEW SUBSCRIBERS ONLY**

Mr. Mrs. Ms. \_\_\_\_\_  
(please print full name) 8H369

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

CHECK ONE: ☐ Payment enclosed ☐ Bill me later.

49619 ☐ Send me one year of *Creative Computing* for \$19.97. (Full subscription price \$24.97)



Mail to:  
**creative computing**  
Dept. CA6X, 39 East Hanover Avenue  
Morris Plains, NJ 07950

## (Only if different from "ORDERED BY")

(Make any necessary address corrections on label)

Mr.  
Mrs.  
Ms.,

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City\_\_\_\_\_

State/Zip \_\_\_\_\_

Daytime Phone ( ) \_\_\_\_\_

Mr.  
Mrs.  
Ms.

(please print full name)

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_

State/Zip \_\_\_\_\_

**PLEASE NOTE:** To order magazine subscriptions, use one of the bound-in order cards or coupons accompanying the appropriate advertisement. **DO NOT** order magazines on this form.

PAGE NO.	ITEM NO.	QTY.	DESCRIPTION	PRICE PER ITEM	TOTAL PRICE

**POSTAGE & HANDLING**

Total order amount	Postage to U.S., Canada or Mexico	Postage to all foreign countries (shipped air mail only)
--------------------------	---	--

Total order

\$

## NJ residents add 5% sales tax

\$

DETACH HERE, FOLD ORDER FORM, AND MAIL IN ENVELOPE

BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 66 BOULDER, COLORADO

POSTAGE WILL BE PAID BY ADDRESSEE

# Computers & Electronics

formerly Popular Electronics

P.O. Box 2774

Boulder, Colorado 80321

[illegible]

BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 66 BOULDER, COLORADO

POSTAGE WILL BE PAID BY ADDRESSEE

# Computers & Electronics

**formerly Popular Electronics**

P.O. Box 2774

Boulder, Colorado 80321

---

---

---

---

---

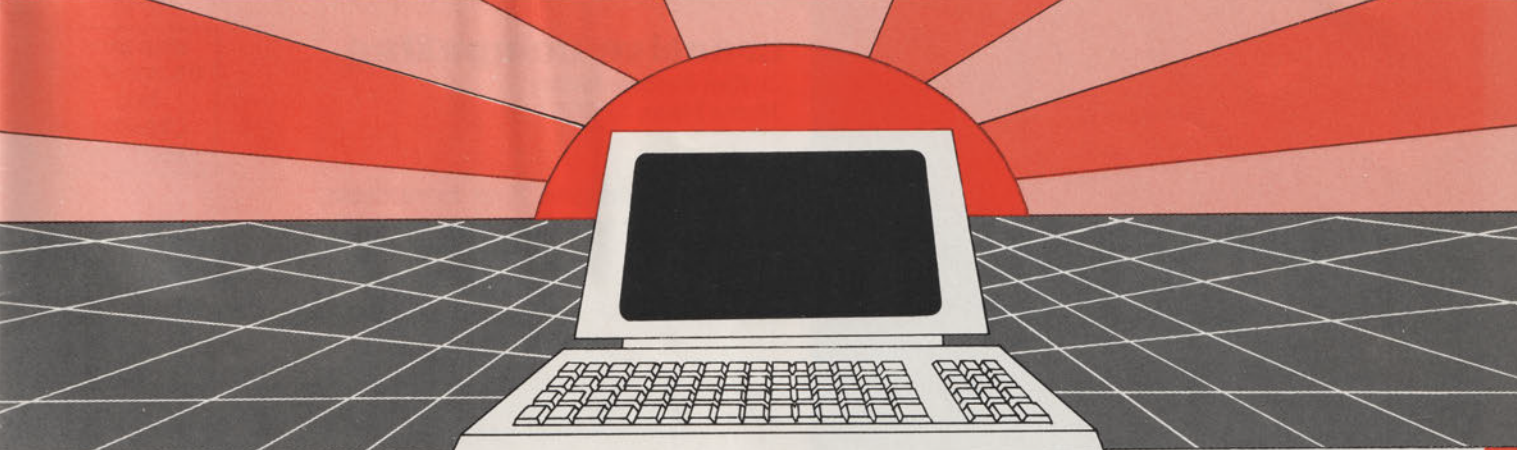
NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

[illegible]

NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES







# DISCOVER THE MAGAZINE THAT HELPED LAUNCH THE MICROCOMPUTER INDUSTRY

Incredible as it may seem, *Popular Electronics* helped launch the microcomputer industry. Back in 1975, we published plans for building the first powerful microcomputer based on the 8080 cpu. These plans generated incredible excitement—and started the world thinking about personal computing.

Since then, we've added more coverage of personal computing. Today, so much of the magazine is devoted to microcomputers that we've changed our name to...

## Computers & Electronics

*Computers & Electronics* continues the *Popular Electronics* tradition of helping our readers experience the advances of the future—today. We do it with clearly written, in-depth articles explaining each innovation...plans for building useful, money-saving projects incorporating the newest technology...reviews of the latest mass-produced equipment. Whether it's microcomputer equipment, audio, video, or personal electronics, *Computers & Electronics* will make it possible for you to enjoy the newest, the most sophisticated, the most innovative technology around.

## Helpful buying guides

*Computers & Electronics* compares and contrasts computers and other electronics gear in meaningful buyer's guide articles. We discuss features and options, what to look for, and how to get the best value. Recent buyer's guides have covered computer printers, pocket computers, sophisticated telephones, video cassette recorders and high-tech audio cassettes.

## World-famous test reports

In every issue of *Computers & Electronics* you'll find our famous in-depth test reports. We take a new product, test it and analyze the results. Recently we've tested the Radio Shack TRS-80 Model III, the IBM Personal Computer, and the Sinclair ZX-81. Microcomputers by Apple, Atari, Hewlett-Packard, Intelligent Systems and Netronics. Plus an interactive data terminal, software,



and a variety of audio, video and testing equipment.

## Innovative construction projects

If you're a do-it-yourselfer, you'll love the construction projects in *Computers & Electronics*. Not only did we bring the world the first successful microcomputer kit, but also projects for building the first low-cost modem. The first computer keyboard integrated with the computer (SOL).

The first low-cost voice synthesizer. The first low-cost logic analyzer. The first 1802-based microcomputer (ELF). The first low-cost function generator. The first gas-laser communicator (awarded a place in the Smithsonian Institution). The first low-cost color graphics computer module. An interface to transfer narrow line listings from your TRS-80 Pocket Computer to either a printer or CRT screen...

As you can see, our construction projects, while not necessarily complex (thanks to multifunction IC chips), will keep you at the forefront of technological development—at remarkably low cost. And in the future, we'll be bringing you construction projects to help you make your microcomputer more useful—whether it's an enhancement, an application, or a merging of technology with external controls and products.

## Get the leader in the field— at up to 33% off!

*Computers & Electronics* is the world's most widely read computer and personal electronics magazine. Now you can subscribe at big savings: up to 33% off. At our New Subscriber rates, a one-year subscription is only \$12.97. Take advantage of this offer—complete and return the coupon or postage-paid reply card today!

## Computers & Electronics

P.O. Box 2774, Boulder, Colorado 80322

- ☐ **YES!** Send me one year (12 issues) of *Computers & Electronics* at \$12.97—I save 19%.  
☐ I prefer two years for \$22.97—I save 28%.  
☐ Make that three years for \$31.97—I save 33%.

Savings based on full one-year subscription price of \$15.97.

Mr./Mrs./Ms. \_\_\_\_\_  
(please print full name)

8H369

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

CHECK ONE: ☐ Payment enclosed. ☐ Bill me later.

Offer valid in U.S. and possessions only. Please allow 30 to 60 days for delivery of first issue.



# creative computing

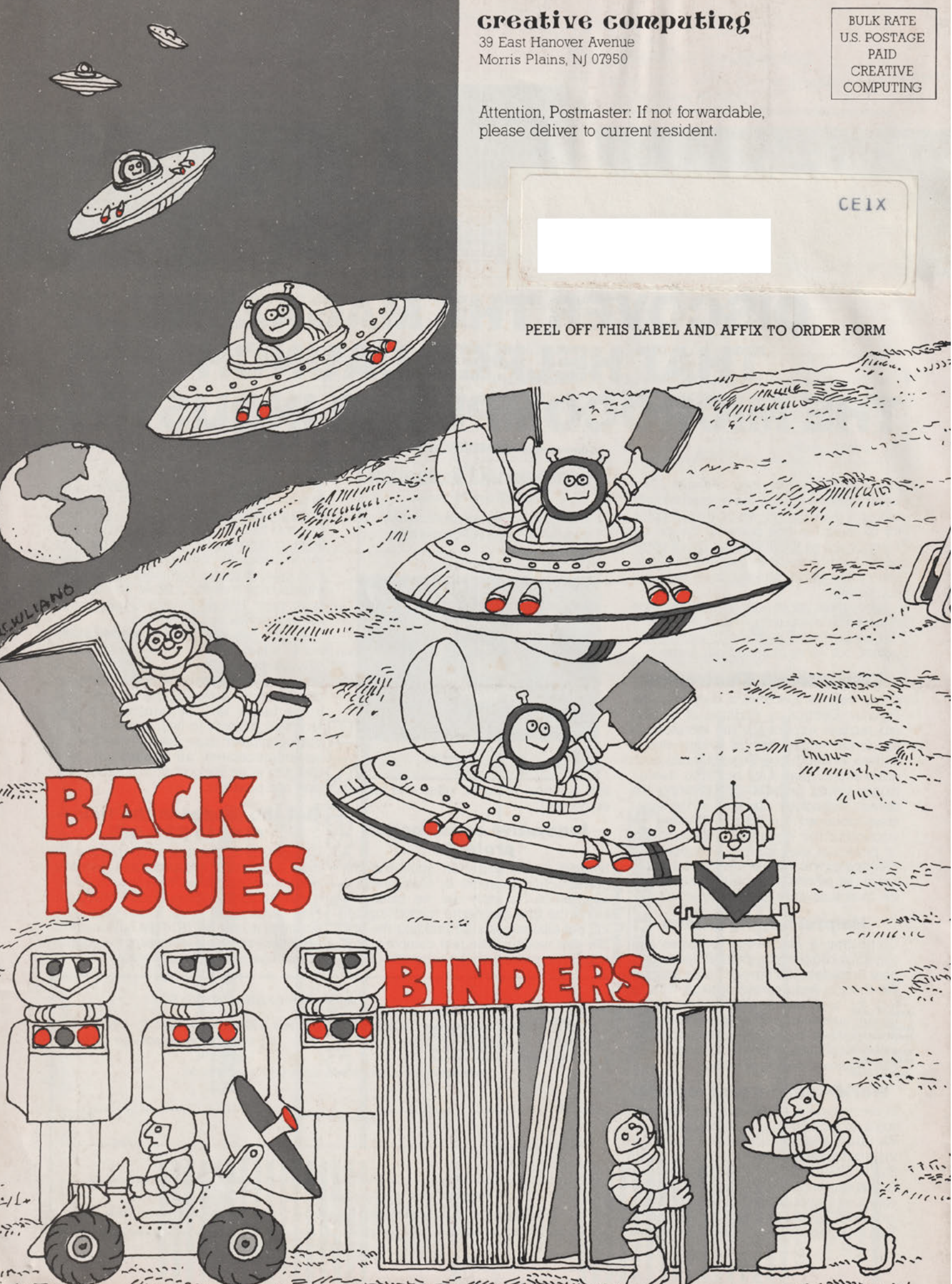
39 East Hanover Avenue  
Morris Plains, NJ 07950

BULK RATE  
U.S. POSTAGE  
PAID  
CREATIVE  
COMPUTING

Attention, Postmaster: If not forwardable,  
please deliver to current resident.

CE1X

PEEL OFF THIS LABEL AND AFFIX TO ORDER FORM



**BACK  
ISSUES**

**BINDERS**